

Claims

- [c1] 1. A welding-type apparatus comprising:
an enclosure;
a power source constructed to condition and output an electrical signal suitable to welding and located in the enclosure; and
a gas cylinder disposed within the enclosure.
- [c2] 2. The welding-type apparatus of claim 1 wherein the power source is at least one of an inverter, an energy storage device, and a combination of an inverter and an energy storage device constructed to output an electrical signal capable of welding.
- [c3] 3. The welding-type apparatus of claim 1 further comprising a wire feeder constructed to feed a consumable wire to a welding gun and wherein the gas cylinder is constructed to provide a shielding gas.
- [c4] 4. The welding-type apparatus of claim 3 wherein the wire feeder is disposed within the enclosure.
- [c5] 5. The welding-type apparatus of claim 1 further comprising a regulator attached to the gas cylinder and disposed within the enclosure.

- [c6] 6. The welding-type apparatus of claim 5 wherein the regulator has a valve and a gauge, wherein each is accessible to a user.
- [c7] 7. The welding-type apparatus of claim 1 further comprising a torch constructed to receive gas from the gas cylinder.
- [c8] 8. The welding-type apparatus of claim 1 wherein the enclosure further comprises an opening in the enclosure to provide passage of the gas cylinder therethrough and a door to close the opening.
- [c9] 9. The welding-type apparatus of claim 1 further comprising a restraining system to hold the gas cylinder in place for transport.
- [c10] 10. The welding-type apparatus of claim 1 wherein the gas cylinder is either one of a re-fillable bottle and a disposable bottle.
- [c11] 11. A welder comprising:
a power source configured to generate welding-type power;
a welding gun in electrical communication with the power source; and
a gas cylinder disposed within the power source and

connected to supply gas to the welding gun.

- [c12] 12. The welder of claim 11 further comprising a wire feeder constructed to provide consumable wire to the welding gun.
- [c13] 13. The welder of claim 12 wherein the wire feeder is disposed within the power source.
- [c14] 14. The welder of claim 11 further comprising a housing positioned about the power source and having an opening constructed to allow passage of the gas cylinder therethrough.
- [c15] 15. The welder of claim 11 wherein the power source is at least one of an inverter and energy storage device constructed to produce a welding signal from a source of power ranging from 110V to 575V.
- [c16] 16. The welder of claim 14 further comprising a regulator positioned within the housing and connectable to the gas cylinder, wherein the regulator is positioned to allow adjustment from outside the housing.
- [c17] 17. The welder of claim 14 further comprising an opening in the housing constructed to allow passage of the gas cylinder therethrough and having a cover removably positioned over the opening.

- [c18] 18. A method of constructing a welding-type apparatus: positioning a power source with respect to a base; providing a restraining system to hold a gas cylinder relative to the power source; and forming a housing to enclose the power source and the restraining system.
- [c19] 19. The method of claim 18 further comprising providing a regulator being connectable to a gas cylinder within the housing.
- [c20] 20. The method of claim 19 further comprising providing an adapter constructed to connect an external gas cylinder to the power source in addition to the gas cylinder within the housing.
- [c21] 21. The method of claim 18 wherein the power source further comprises one of an energy storage device, an inverter, and a combination of an inverter and an energy storage device that converts an input signal of 110V–575V into a signal capable of welding.
- [c22] 22. The method of claim 19 further comprising providing a valve and a gauge of the regulator outside of the housing.
- [c23] 23. The method of claim 18 further comprising forming

an opening in the housing thereby providing access to the restraining system.

- [c24] 24. A welder-type device comprising:
a housing having an opening to allow passage of a gas cylinder therethrough;
a means for supplying welding power located in the housing; and
means for retaining the gas cylinder within the housing.
- [c25] 25. The welder-type device of claim 24 wherein the gas cylinder is disposable.
- [c26] 26. The welder-type device of claim 24 further comprising a means for regulating flow from the gas cylinder located in the housing.
- [c27] 27. The welder-type device of claim 26 further comprising a means for attaching a second gas cylinder located outside the housing.
- [c28] 28. The welder-type device of claim 24 wherein the gas cylinder is aligned with the opening of the housing.
- [c29] 29. The welder-type device of claim 24 wherein the means for supplying welding power is at least one of an inverter, an energy storage device, and a combination of an inverter and an energy storage device.

